### Search Results -

Terms	Documents
L1.clm. and interrupt\$3.clm.	2

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DB=P	PGPB; PLUR=YES; OP=OR		
<u>L3</u>	l1.clm. and interrupt\$3.clm.	2	<u>L3</u>
<u>L2</u>	L1 and interrupt\$3	57	<u>L2</u>
<u>L1</u>	event near5 (data adj1 structure) near5 (Id or identifi\$4)	127	<u>L1</u>

### Search Results -

Terms	Documents
L1 and (writ\$3 same generat\$3 same interrupt\$3)	5

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DB=P	GPB,USPT,USOC; PLUR=YES; OP=OR		
<u>L4</u>	L1 and (writ\$3 same generat\$3 same interrupt\$3)	5	<u>L4</u>
<u>L3</u>	L1 and (generat\$3 near5 interrupt\$3)	31	<u>L3</u>
<u>L2</u>	L1 and interrupt\$3	78	<u>L2</u>
<u>L1</u>	event near5 (data adj1 structure) near5 (Id or identifi\$4)	182	<u>L1</u>

### Search Results -

Terms	Documents
L1 and (writ\$3 same generat\$3 same interrupt\$3)	5

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Set Name side by sid		Hit Count S	Set Name result set
DB=PC	GPB,USPT,USOC; PLUR=YES; OP=OR		
<u>L4</u>	L1 and (writ\$3 same generat\$3 same interrupt\$3)	5	<u>L4</u>
<u>L3</u>	L1 and (generat\$3 near5 interrupt\$3)	31	<u>L3</u>
<u>L2</u>	L1 and interrupt\$3	78	<u>L2</u>
<u>L1</u>	event near5 (data adj1 structure) near5 (Id or identifi\$4)	182	<u>L1</u>

### Search Results -

Terms	Documents
L1 and (writ\$3 same generat\$3 same interrupt\$3)	0

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DB=EF	PAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
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<u>L4</u>	L1 and (writ\$3 same generat\$3 same interrupt\$3)	5	<u>L4</u>
<u>L3</u>	L1 and (generat\$3 near5 interrupt\$3)	31	<u>L3</u>
<u>L2</u>	L1 and interrupt\$3	78	<u>L2</u>
<u>L1</u>	event near5 (data adj1 structure) near5 (Id or identifi\$4)	182	<u>L1</u>

### Search Results -

Terms	Documents
(709/253  710/260  710/261  710/262  710/263  710/264  710/265  710/266  710/267  710/268  710/269  710/48  710/50  710/73  712/25  719/318).ccls.	3480

Database:
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L6

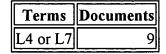
Recall Text
Clear
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### **Search History**

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Set Name Query	Hit Count	<u>Set Name</u>
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DB=PGPB, USPT, USOC; PLUR=YES; OP=OR		
<u>L6</u> 710/260-269,48,50,73;719/318;709/253;712/25.ccls.	3480	<u>L6</u>
DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
L1 and (writ\$3 same generat\$3 same interrupt\$3)	0	<u>L5</u>
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
L4 L1 and (writ\$3 same generat\$3 same interrupt\$3)	5	<u>L4</u>
<u>L3</u> L1 and (generat\$3 near5 interrupt\$3)	31	<u>L3</u>
<u>L2</u> L1 and interrupt\$3	78	<u>L2</u>
<u>L1</u> event near5 (data adj1 structure) near5 (Id or identifi\$4)	182	<u>L1</u>

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DB=P	PGPB,USPT,USOC; PLUR=YES; OP=OR		
<u>L8</u>	14 or L7	9	<u>L8</u>
<u>L7</u>	13 and L6	6	<u>L7</u>
<u>L6</u>	710/260-269,48,50,73;719/318;709/253;712/25.ccls.	3480	<u>L6</u>
DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
<u>L5</u>	L1 and (writ\$3 same generat\$3 same interrupt\$3)	0	<u>L5</u>
DB=PGPB, USPT, USOC; PLUR=YES; OP=OR			
<u>L4</u>	L1 and (writ\$3 same generat\$3 same interrupt\$3)	5	<u>L4</u>
<u>L3</u>	L1 and (generat\$3 near5 interrupt\$3)	31	<u>L3</u>
<u>L2</u>	L1 and interrupt\$3	78	<u>L2</u>
<u>L1</u>	event near5 (data adj1 structure) near5 (Id or identifi\$4)	182	<u>L1</u>

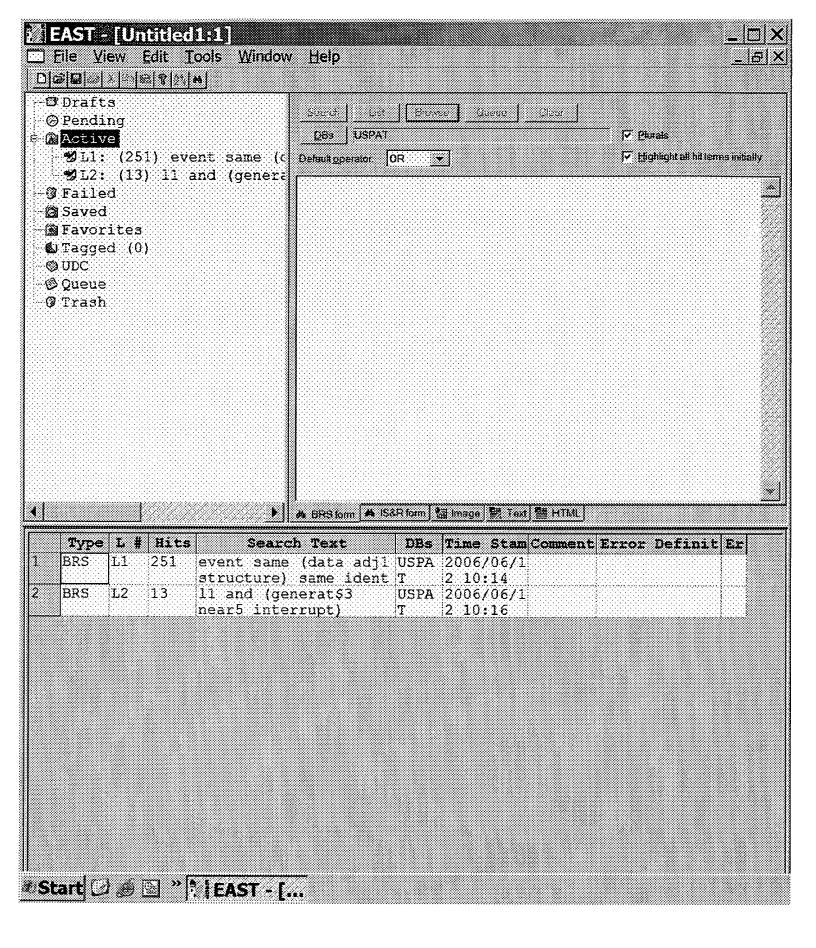
# Freeform Search

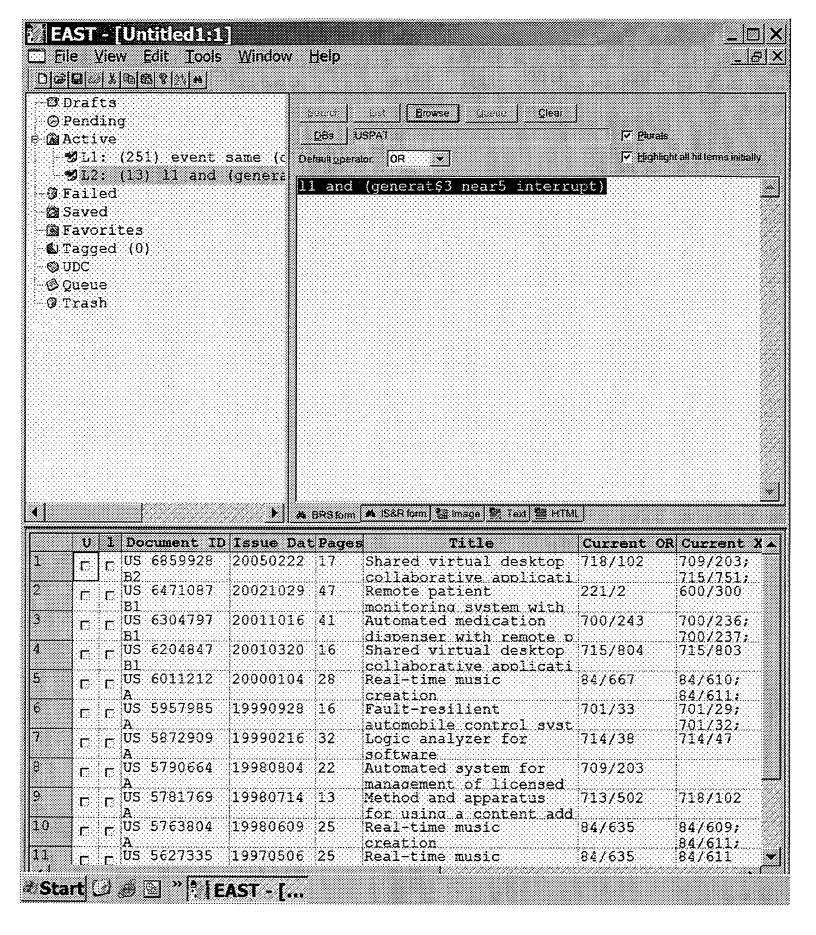
Database:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins		
Term:	14 or L7		
Display:	10 Documents in Display Format: -	Starting with Number	
Generate:	C Hit List 6 Hit Count C Side by Side C	Image	
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Set Nam side by side		Hit Count	Set Name result set
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DB=P	GPB, USPT, USOC; PLUR=YES; OP=OR		
<u>L8</u>	14 or L7	9	<u>L8</u>
<u>L7</u>	13 and L6	6	<u>L7</u>
<u>L6</u>	710/260-269,48,50,73;719/318;709/253;712/25.ccls.	3480	<u>L6</u>
DB=E	PAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L5</u>	L1 and (writ\$3 same generat\$3 same interrupt\$3)	0	<u>L5</u>
DB=P	GPB,USPT,USOC; PLUR=YES; OP=OR		
<u>L4</u>	L1 and (writ\$3 same generat\$3 same interrupt\$3)	5	<u>L4</u>
<u>L3</u>	L1 and (generat\$3 near5 interrupt\$3)	31	<u>L3</u>
<u>L2</u>	L1 and interrupt\$3	78	<u>L2</u>
<u>L1</u>	event near5 (data adj1 structure) near5 (Id or identifi\$4)	182	<u>L1</u>





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\* Key

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EEE JNL | IEEE Journal or Magazine

IIIEE CNP | IEEE Conference Proceeding

IEEE CNF | IEE Conference Proceeding

IEEE STD | IEEE Standard

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Software Engineering, IEEE Transactions on Volume 19, Issue 2, Feb. 1993 Page(s):155 - 164 Digital Object Identifier 10.1109/32.214832

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2. Enriching Reverse Engineering with Semantic Clustering

Kuhn, A.; Ducasse, S.; Girba, T.;

Reverse Engineering, 12th Working Conference on

07-11 Nov. 2005 Page(s):133 - 142

Digital Object Identifier 10.1109/WCRE.2005.16

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### **Enriching Reverse Engineering with Semantic Clustering**

Kuhn, A. Ducasse, S. Girba, I.

University of Berne

This paper appears in: Reverse Engineering, 12th Working Conference on

Publication Date: 07-11 Nov. 2005

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Digital Object Identifier: 10.1109/WCRE.2005.16

Posted online: 2006-01-03 13:50:21.0

Understanding a software system by just analyzing the structure of the system reveals only half of the picture, since the structure tells us only how the code is working but not what the code is about. What the code is about can be found in the semantics of the source code: names of identifiers, comments etc. In this paper, we analyze how these terms are spread over the source artifacts using Latent Semantic Indexing, an information retrieval technique. We use the assumption that parts of the system that use similar terms are related. We cluster artifacts that use similar terms, and we reveal the most relevant terms for the computed clusters. Our approach works at the level of the source code which makes it language independent. Nevertheless, we correlated the semantics with structural information and we applied it at different levels of abstraction (e.g. classes, methods). We applied our approach on three large case studies and we report the results we obtained.

Index Terms

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